This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

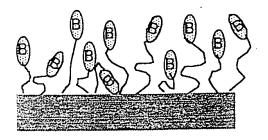
Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

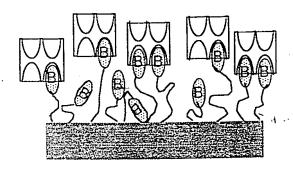
IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.



PLA-PEG-biotin surface with biotin presented on flexible PEG chains

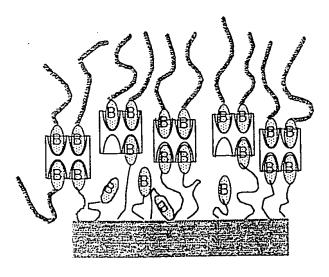
Incubation in aq. solution of avidin

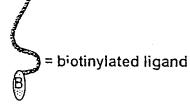


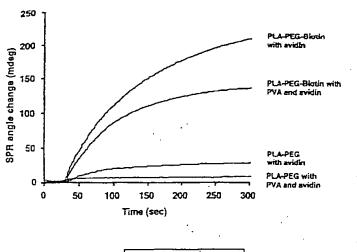


= avidin

Wash away excess avidin and incubate with biotinylated ligand

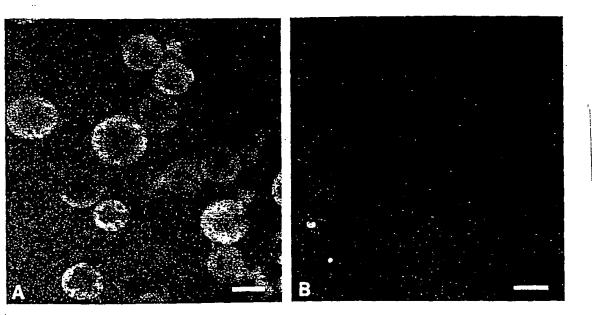




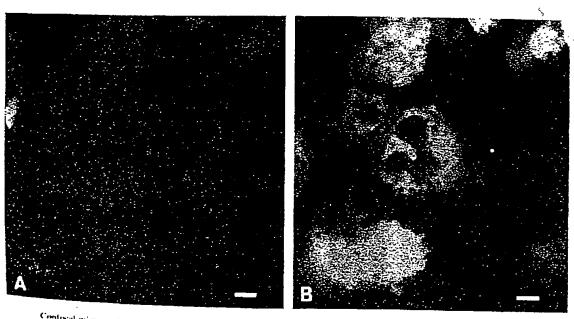


	9SPR change (mdeg)	
	0.5 µg/ml avida	0.5 µg/mi avidin . after PVA
PLA-PEG-Blottn	211 ± 13	140 ± 24
PLA-PEG	34±8	5±3

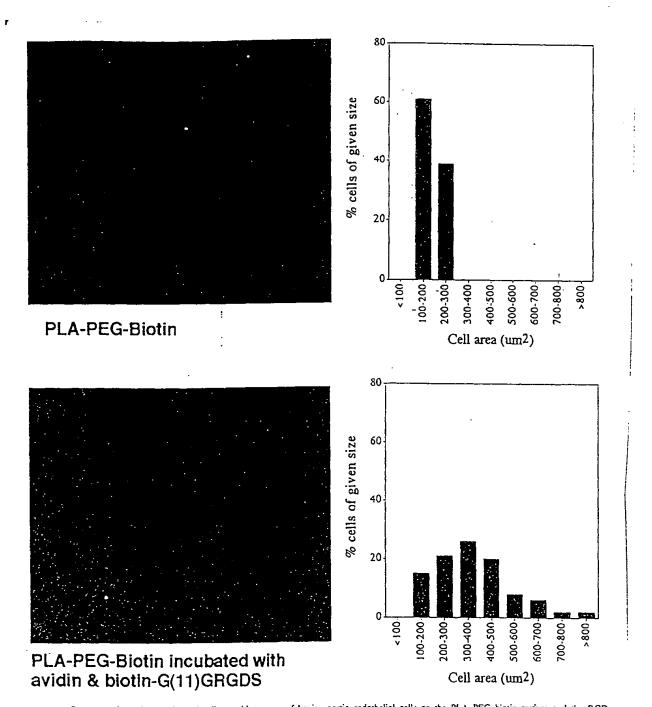
A comparison of avidin immobilization on surfaces of PLA-PEG-biotin and PLA-PEG by surface plasmon resonance analysis. An increase in θ_{SPR} indicates the deposition of material onto the polymer surface. The graph shows the change in θ_{SPR} resulting from the introduction of a 0.5- μ g/mL avidin solution into the flow cell of the SPR. For PVA-stabilized surfaces, the PVA absorption phase of the SPR experiment is not shown in the graph.



Fluorescent confocal micrograph of biodegradable microparticles. (A) PLA-PEG-biotin microparticles incubated with fluorescent avidin—Texas Red. (B) PLA-PEG (control) microparticles incubated in avidin—Texas Red. Bar is 2 μm.



Confecul micrographs of PLA-PEG-hiotin microparticles following incubation with avidin-Texas Red and hiotin-FITC. (A) Field view with advanced for Texas Red emission. (B) Same field as shown in A, except image was simultaneously recorded under a separate optical channel for ETTC consistent. But is 2 µm.



Representative micrographs and cell area histograms of bovine aortic endothelial cells on the PLA-PEG-biotin surface and the RGD-functionalized surface 5 h after cell seeding. Note that the cells are rounded with a small cell area on the PLA-PEG-biotin surface while the cells are flattened and spread out on the functionalized surface.